UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES

Washington

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SFFI	INSTRUCTIONS IN HOW TO			5
	TYPE ALL ENTRIES C			
NAME				
HISTORIC	Eads Bridge			
AND/OR COMMON	Eads Bridge			
LOCATION				
STREET & NUMBER	Crosses the Mississ:	= =	hington Ave, St.	Louis, MO
to Bi	roadway, East St. Louis	= =	NOT FOR PUBLICATION	
CITY, TOWN	nui e	\(\text{\tint{\text{\tin}\text{\tex{\tex	CONGRESSIONAL DISTR	RICT
St Lo		VICINITY OF CODE	COUNTY	CODE
Misso	ouri	29	St. Louis	510
CLASSIFIC				
CATEGORY	OWNERSHIP	STATUS	PRES	ENT USE
DISTRICT	X_PUBLIC	XOCCUPIED	AGRICULTURE	MUSEUM
BUILDING(S)	PRIVATE	UNOCCUPIED	COMMERCIAL	PARK
*STRUCTURE	BOTH	WORK IN PROGRESS	EDUCATIONAL	PRIVATE RESIDEN
SITE	PUBLIC ACQUISITION	ACCESSIBLE	ENTERTAINMENT	
_OBJECT	_IN PROCESS	YES: RESTRICTED	GOVERNMENT	SCIENTIFIC
	BEING CONSIDERED	XYES: UNRESTRICTED	INDUSTRIAL MILITARY	X_TRANSPORTATIONOTHER:
OWNER OF	F PROPERTY			
NAME	Terminal Railroad Asso	ciation of St. Loui	s	
STREET & NUMBER	906 Olive Street			
CITY, TOWN	St. Louis	VICINITY OF	STATE M	lissouri
LOCATION	OF LEGAL DESCR			
COURTHOUSE. REGISTRY OF DEEDS	ETC. Assessor's Of	fice, City Hall		
STREET & NUMBER	Room 114, 12t	h and Market Street	;s	
CITY, TOWN	St. Louis,		STATE M	lissouri
REPRESEN	ITATION IN EXIST	ING SURVEYS		
TITLE	Historic American B	uildings Survey		
DATE	1968	X_FEDERALS	STATE _COUNTY _LOCAL	
DEPOSITORY FOR SURVEY RECORDS	Library of Congress	/Prints and Photogr	raphs Division	
CITY, TOWN			STATE	

CONDITION

CHECK ONE

CHECK ONE

_EXCELLENT XGOOD __DETERIORATED
__RUINS

XXUNALTERED

__ALTERED

XXORIGINAL SITE

__FAIR

_UNEXPOSED

__MOVED DATE____

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

Eads Bridge spans the Mississippi River at St. Louis, Missouri, crossing from Washington St. in St. Louis to Broadway in East St. Louis, Illinois. It is a three span, ribbed steel arch bridge, with lower and upper decks and granite-faced limestone piers. Materials used in the construction include 2390 tons of steel, 3156 tons of wrought iron, 806 tons of timber decking, 4556 cubic yards of concrete, and 97,571 cubic yards of stone masonry. The center span is 520 feet, the other two spans are 502 feet, and the overall length including approaches on both sides is 6442 feet. The bridge clearance is 50 feet above high water.

The piers are constructed of limestone below the average high water mark and of granite above this level. The east abutment rises 193 feet from bedrock, the west abutment, 113 feet. The east pier, which is the deepest, is 197 feet from bedrock, and the west pier is 172 feet.

There are small masonry arches on the approaches to the bridge, mostly on the lower level and larger arches on the street level next to the river. The highway deck, which is 54 feet wide, is supported by concrete foundations, and runs across the top of the bridge. Only a small portion of the original railing exists, on the north side of the eastern approach. The lower deck carried dual railroad tracks which were removed in 1974. Some of the wooden ties remain on the bridge. The railroad tracks emerged from the lower deck of the bridge on the Illinois (east) side and ran above the road upon reaching the embankment.

Connected to the bridge on the west side is a 4095 foot tunnel which runs under Washington St. and 8th Ave. to Clark St. in St. Louis. The tunnel is approximately 16.5 feet high with two interior bores five to six feet wide. The floor of the tunnel is about 20 feet below street level and the tunnel makes close to a 90° turn at the corner of 8th and Washington. The tunnel entrance at Clark St. is rectangular and lined with granite or limestone blocks, while the two inner bores are arched with granite or limestone blocks. The tunnel roof is flat and the walls appear to be finished with concrete. The tracks were removed from the tunnel in 1974, although some wooden ties still remain.

The combined length of the tunnel and bridge is approximately 2 miles.

•			0 5 1		
Condition		Check one	Check one		
excellent	deteriorated	x_ unaltered	_X original s	iite	
_X good	ruins	altered	moved	date	
fair	unexposed_				

Describe the present and original (if known) physical appearance

Description

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The length of the bridge is approximately 1 mile.

8 SIGNIFICANCE

PERIOD	AF	REAS OF SIGNIFICANCE CH	ECK AND JUSTIFY BELOW	
PREHISTORIC	ARCHEOLOGY-PREHISTORIC	COMMUNITY PLANNING	LANDSCAPE ARCHITECTURE	RELIGION
1400-1499	ARCHEOLOGY-HISTORIC	CONSERVATION	LAW	SCIENCE
_1500-1599	AGRICULTURE	ECONOMICS	LITERATURE	SCULPTURE
_1600-1699	ARCHITECTURE	EDUCATION	MILITARY	SOCIAL/HUMANITARIAN
_1700-1799	ART	X ENGINEERING	MUSIC	THEATER
x_1800-1899	COMMERCE	EXPLORATION/SETTLEMENT	PHILOSOPHY	**TRANSPORTATION
1 900 -	COMMUNICATIONS	NT2UDNI	POLITICS/GOVERNMENT	_OTHER (SPECIFY)
		INVENTION		
SPECIFIC DAT	ES 1007 107/	BUILDER/ARCI	HITECT Captain James	B. Fads
51 2517 14 27 11	1867–1874		captarn dames	D. Edds

STATEMENT OF SIGNIFICANCE

Eads Bridge was designed and built by Captain James B. Eads (1820-1887) to accommodate rail service over the Mississippi River, thus providing a link between railroads running east from East St. Louis, Illinois, and those going west from St. Louis, Missouri. Construction began on the west abutment in August of 1867 and the bridge was completed and dedicated on July 4, 1874, at a cost of \$10,000,000. The addition of a tunnel which ran under the streets of St. Louis from Clark Street to the bridge, brought the total cost of the project to well over \$12,000,000.

The bridge employs a three-span, ribbed steel, deck arch design, and is significant for its design, method of construction, and materials used. Construction utilized cantilever support rather than centering, a technique used most commonly in arch and truss bridges, and featured spans larger than any previously constructed bridge. It wasn't until 1932 that a bridge with larger spans was constructed. Steel was used for the first time as the primary metal on a major structure, and was supplied by the Keystone Bridge Company of Pittsburgh. Eads Bridge was also important as the largest bridge built at that time, with the largest caissons constructed to date, the first significant use of compressed air for subaqueous work, and the deepest compressed air work.

James B. Eads was a hydraulic river engineer. He also built iron clad gunboats for the Union during the Civil War and designed the jetty system at the mouth of the Mississippi River. Eads Bridge was the first bridge that he designed and the only one that he actually built. At one time, Eads ran a salvage business on the river, and as a diver, became familiar with the currents and the composition of the river bottom. Taking into account this knowledge of the river, he proposed to build a bridge over the Mississippi in 1865. Believing that the foundations were the most critical portion of the bridge, Eads was convinced they should rest on the bedrock to assure stability. The bridge structure would require a three-span, ribbed steel arch construction. Based on these preliminary plans, Eads was named the chief engineer of the newly formed St. Louis Bridge Company, and he proceeded to fully develop his plans with a staff of qualified engineers.

A trip to Europe in 1868 resulted in Eads' decision to use a pneumatic caisson system of construction on the piers. This allowed him to reach bedrock 136 feet below high water on the east pier, the deepest pneumatic caisson ever constructed. Eads also improved air lock designs and invented a sand pump that facilitated excavations within the caisson A portion of the iron used in constructing the piers was salvaged from the wreck of the iron clad gunboat, Milwaukee, sunk by Confederate torpedos, March 1865 in Mobile Bay. The iron caissons were then filled with concrete which formed the foundation of the piers. Caisson disease, or the bends, was a problem encountered by men working in the deep levels of the piers. Since little was known about combating the effects of men working in highly compressed air, 119 men developed the disease, and 14 died from it before the

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SIGNIFICANCE (continued)

bridge was completed. The caissons of the two river piers reached bedrock in early 1870.

Construction of the superstructure began in April, 1873. Eads had developed a ribbed steel arch, using four pairs of steel tubes for each of the three spans. The lower and upper tubes of each pair were tied together in truss-like form using wrought iron bracings supplied by Andrew Carnegie. The arches cantilevered out from both sides of the river piers to form part of the half-span. Additional tubes were supported by cables strung from temporary towers built on top of the piers, until full half-arches were completed. Arches were closed at the center using a special threaded coupling. Rib construction was completed in less than 14 months.

Adjoining the bridge on the west side is a 4095 foot railroad tunnel which runs under 8th Avenue and Washington Street in St. Louis. An integral portion of the bridge project, construction on the tunnel began in 1873 and was completed by June, 1874. Over 60,000 cubic yards of masonry was used in building the tunnel. Although not built by the Illinois and St. Louis Bridge Company, the same masonry contractor for the bridge worked on part of the masonry in the tunnel, particularly at the west entrance to the tunnel and on the two arches of the inner bores. Little information is available on the actual construction of the tunnel, therefore, it is not known if the tunnel is significant in comparison to other tunnels built at the same time. However, based on the early date (1874) and its importance to the main purpose of the bridge, the tunnel has been included in the district. The tunnel provided the link between the bridge and Union Depot railroad yards in St. Louis, as well as joining railroad lines to the west.

The bridge and tunnel were formally opened on July 4, 1874 with gala festivities marking the occasion. The excitement was shortlived. The tunnel was plagued with numerous problems from the start. The first train through the tunnel scrapped the sides because although the wheel had been converted to standard gauge (4'9"), the body of the train was still broad gauge (6') and too wide for the narrow passage. Heat, smoke, and the smell in the tunnel also bothered passengers traveling in the open cars.

Christened the Illinois and St. Louis Bridge, the name did not last, and neither did the company which owned it. The track which crossed the bridge and tunnel were connected to only one railroad, the St. Louis, Vandalia, and Terre Haute Railroad, and no arrangement had been formally made with that line to send any traffic over the bridge. Other railroads boycotted the bridge following its completion, forcing the Illinois and St. Louis Bridge Company into receivership less than one year after opening. Within four years, the company went bankrupt and the bridge was sold at auction in 1878. An English company named the St. Louis Bridge Company bought the bridge for \$2,000,000, and in 1881, Jay Gould's Missouri Pacific obtained a sole lease on the bridge, assuming all debts. Finally, in 1889, the lease was transferred to a group of railroad companies called the Terminal Railroad Association of St. Louis. This company has owned and operated the bridge ever since. Although the highway part of the bridge is still used, the tracks on the bridge and in the tunnel were removed in 1974. Some ties are still visible in the tunnel and on the lower deck of the bridge.

9.	Major Bibl	llographica	ii Reterenc	es	
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9 MAJOR BIBLIOGRAPHICAL REFERENCES

Mattison, Ray H., "Eads Bridge," Historic Sites Survey Record, 1963.

Smith, Shirley H., The World's Great Bridges. 1953.

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Work Projects Administration, Missouri—A Guide to the "Show Me" State, 1941.

Art Museum, Dept. of Civil Engineering, Princeton University, The Eads Bridge, 1974

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STREET & NUMBER 100 L Street NW	523-5464		TELEPHONE	234-2560 7/83
CITY OR TOWN Jashington, D.C.			STATE	Denver, CO
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As the designated State Historic F hereby nominate this property for criteria and procedures set forth b	r inclusion in the National R			
STATE HISTORIC PRESERVATION OF	FFICER SIGNATURE	<u> </u>		
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FOR NPS USE ONLY I HEREBY CERTIFY THAT THIS	PROPERTY IS INCLUDED	IN THE NATIONAL REGI	STER DATE	
DIRECTOR, OFFICE OF ARCHI ATTEST:	OLOGY AND HISTORIC PR	ESERVATION	DATE	
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FHR-8-300 (11-78)

United States Department of the Interior Heritage Conservation and Recreation Service

National Register of Historic Places Inventory—Nomination Form

Continuation sheet

Item number

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Verbal Boundary Description

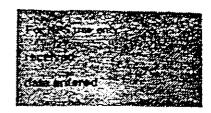
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The boundary is drawn to include the bridge, both approaches, the foundations and piers which extend down to the bedrock of the river, and the entire tunnel structure, extending from street level to a depth of 30 feet, and no more than 20 feet in width. The tunnel is included in the district as an integral portion of the bridge construction.

The dimensions of the district are approximately two miles in length, and 55 feet in width on the bridge, narrowing to 20 feet in the tunnel.

United States Department of the Interior National Park Service

National Register of Historic Places Inventory—Nomination Form



Continuation sheet

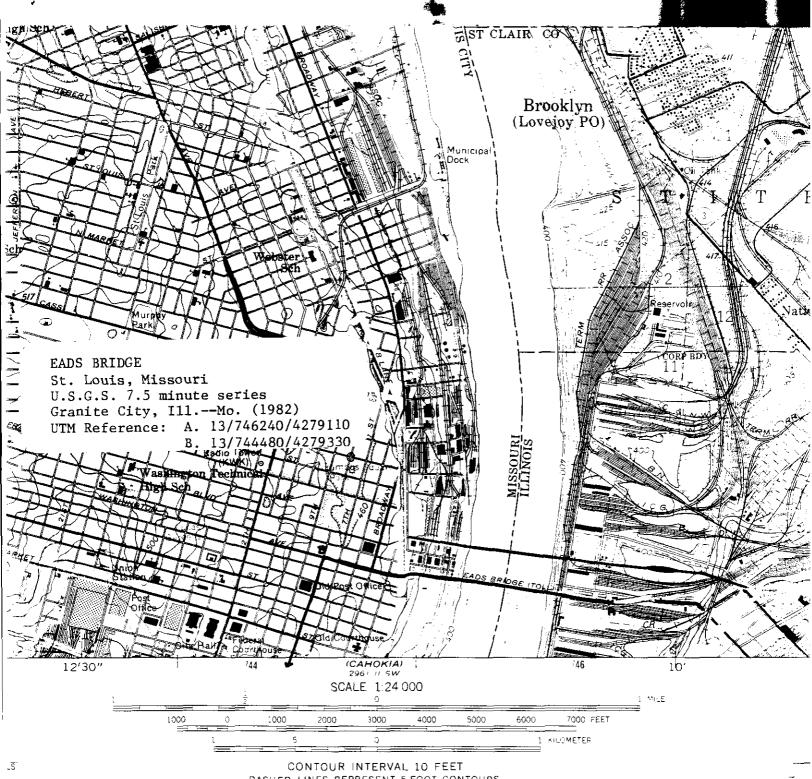
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Page

Verbal Boundary Description and Justification (continued)

longer supported by the bridge structure. The boundary is drawn to include the bridge, both approaches, the foundations and piers which extend down to the bedrock of the river.

The dimensions of the structure are approximately 1 mile in length, 55 feet in width.



CONTOUR INTERVAL 10 FEET

DASHED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092,

STATE GEOLOGICAL SURVEY, URBANA, ILLINOIS 61801,

AND THE DIVISION OF GEOLOGY AND LAND SURVEY

MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401

A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE

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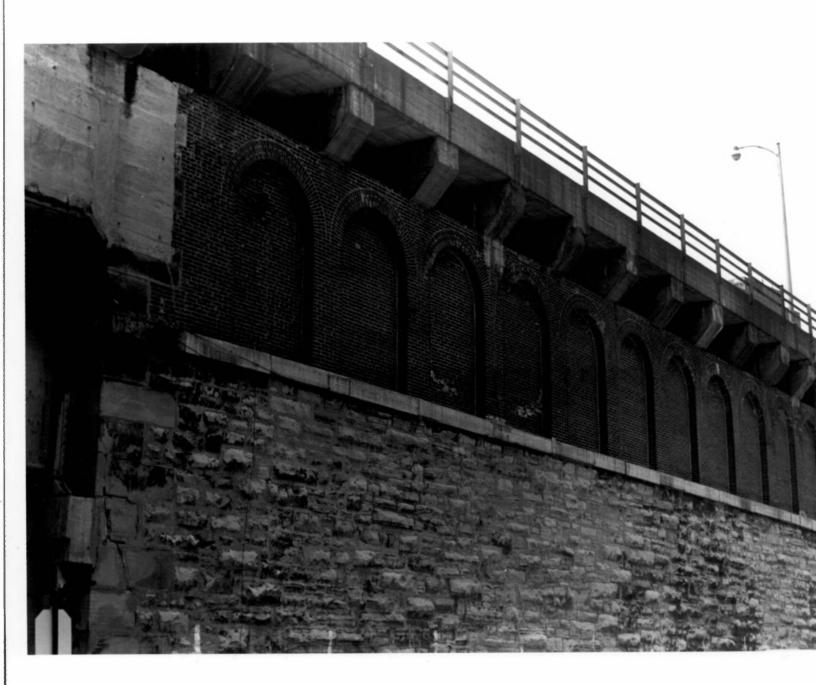
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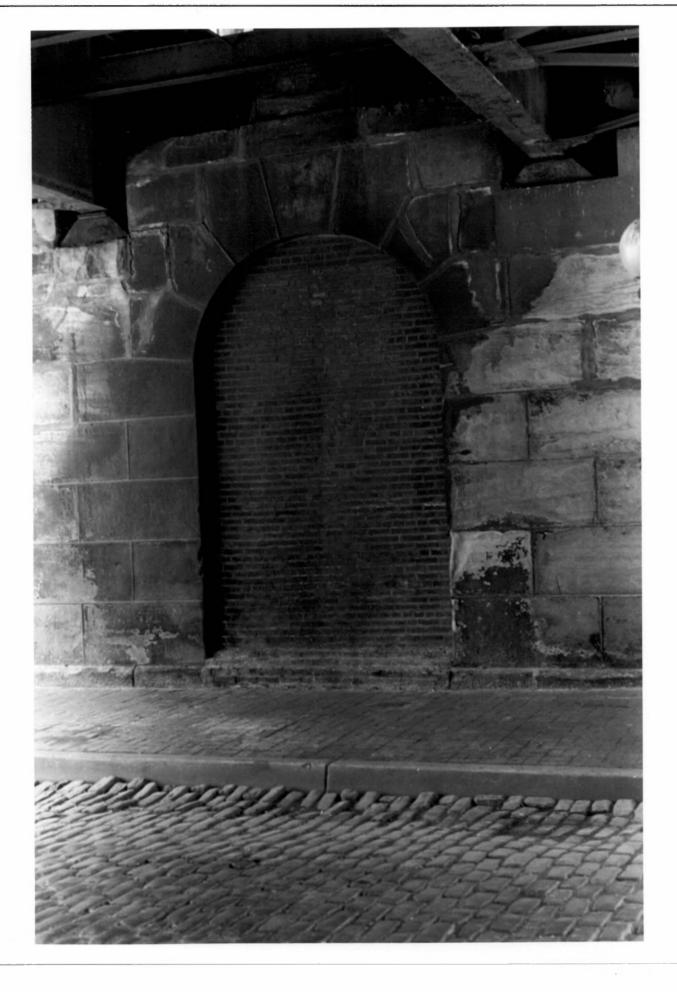
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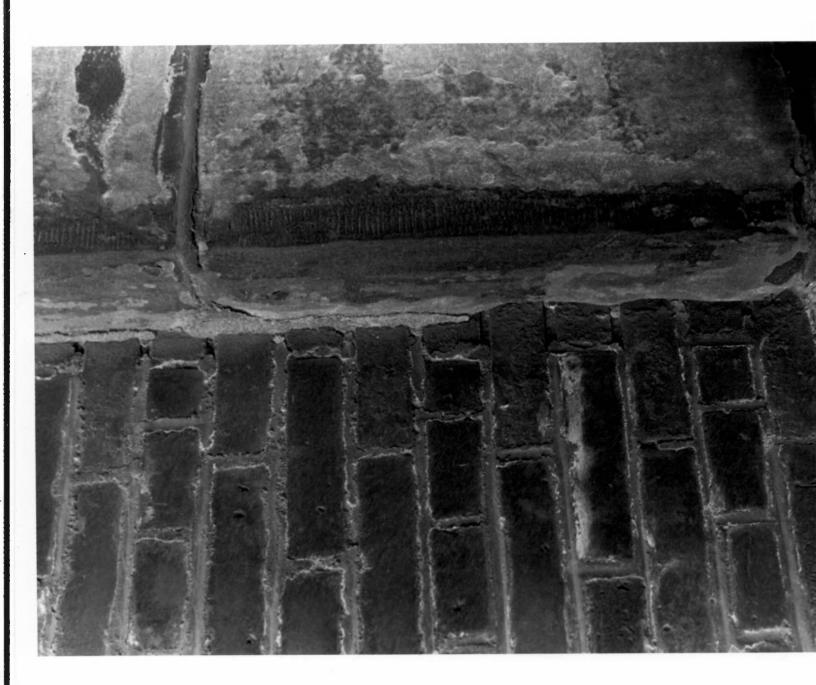


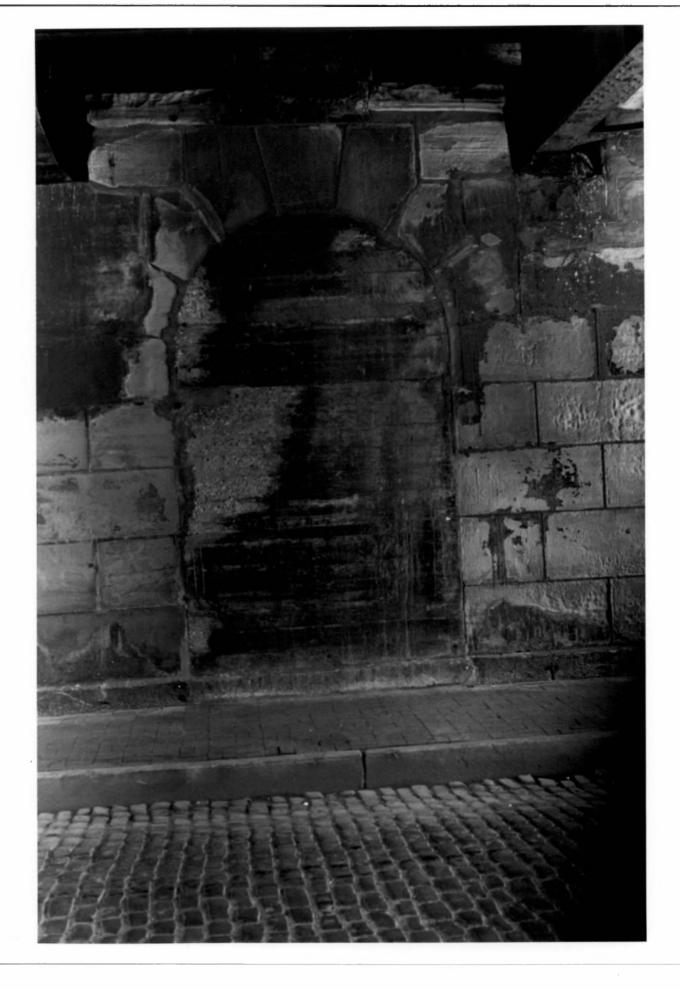


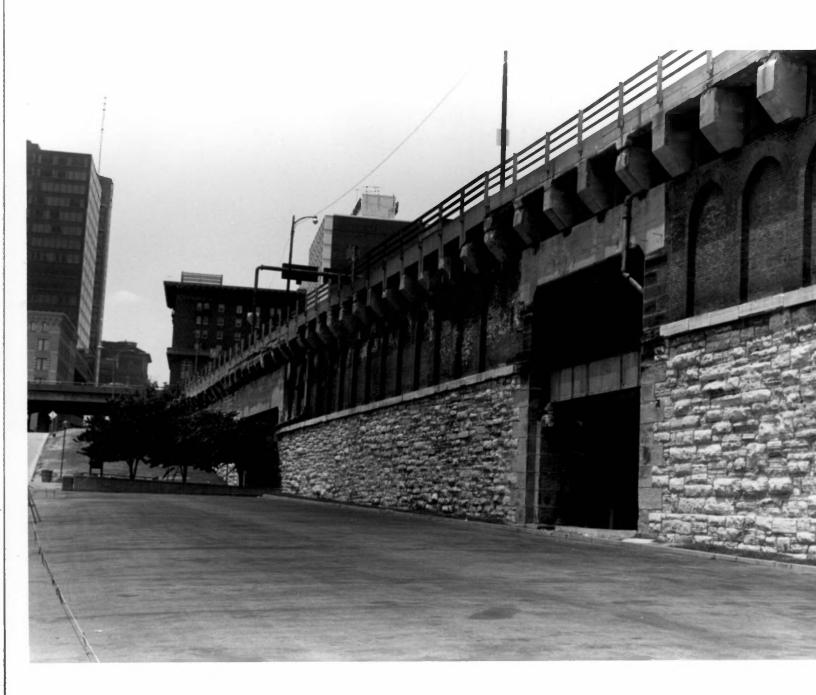


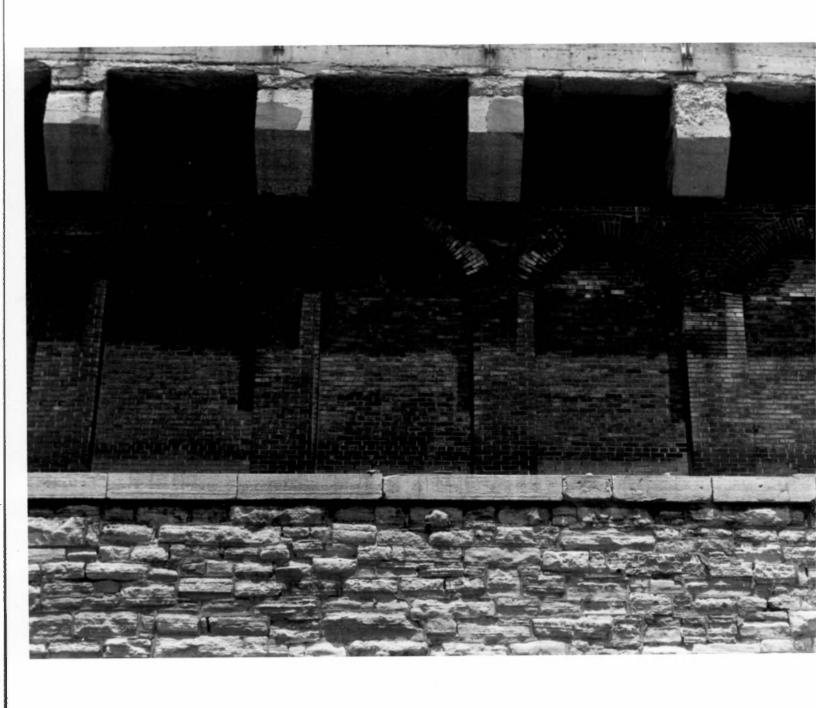


















Site: Eads Bridge County: City of St. Louis Date: May 1983 Photographer: Michael Weichman



Site: Eads Bridge County: City of St. Louis Date: May 1983 Photographer: Michael Weichman



Site: Eads Bridge County: City of St. Louis Date: May 1983 Photographer: Michael Weichman



EXTRA

